

## Message Text

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ORIGIN PM-04

INFO OCT-01 AF-10 ARA-10 EUR-12 EA-07 ISO-00 OES-07  
ERDA-05 SS-15 NSC-05 L-03 CIAE-00 INR-07 NSAE-00  
/086 R

DRAFTED BY OASD/ISA/FMRA:LCDR LANDEN;PM/ISO:CCORDER:DME  
APPROVED BY PM/ISO:GTCHURCHILL  
EA/RA:J.BROH-KAHN  
EUR/RPM:D.KINNEY  
ARA/RPP:J.KING  
AF/I:WLEWIS  
OES/APT:R.EDDINGTON

-----181612Z 000483 /43

R 181436Z JUN 77  
FM SECSTATE WASHDC  
TO AMEMBASSY CANBERRA  
AMEMBASSY PARIS  
AMEMBASSY PARAMARIBO  
AMEMBASSY PORT LOUIS  
AMEMBASSY PRETORIA  
INFO SECDEF  
USDAO LONDON UK  
HQ USAF WASHDC/XOXXI  
HQ AFSC ANDREWS AFB MD/FA  
4950TW WPAFB OH/DOMM  
HQ NASA WASHDC/TN/I  
GFSC GREENBELT MD/CODE 852/PARKER  
CINCMAC SCOTT AFB IL/DOOMS  
22AF TRAVIS AFB CA/DOOMS  
CINCPAC  
60MAW TRAVIS AFB CA/DOO  
CINCPACAF

C O N F I D E N T I A L STATE 142336

E.O. 11652:ADS-DECLASSIFY UPON COMPLETION OF NEGOTIATIONS  
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TAGS: MARR, TSPA, AS, NS, MP, SF

SUBJECT: ADVANCED RANGE INSTRUMENTED AIRCRAFT (ARIA) SUPPORT  
OF VOYAGER SPACE LAUNCH

1. THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WILL  
LAUNCH TWO DEEP SPACE VOYAGER SPACECRAFT TO EXPLORE THE  
PLANETARY SYSTEMS OF JUPITER AND SATURN AND THE  
INTERPLANETARY MEDIUM BETWEEN EARTH AND SATURN. THIS WILL  
BE ACCOMPLISHED BY TWO LAUNCHES, ONE ON 20 AUGUST AND ONE

ON 30 AUGUST 1977. NASA HAS ASKED THE US AIR FORCE TO PROVIDE TELEMETRY SUPPORT FOR CERTAIN MARK EVENTS WHICH CANNOT BE SUPPORTED BY EXISTING GROUND STATIONS. REQUEST EMBASSIES SEEK THE APPROVAL OF HOST GOVERNMENTS FOR THE OPERATIONS DETAILED BELOW.

2. FOUR ARIA AIRCRAFT (BOEING 707 TYPE AIRCRAFT) WOULD BE REQUIRED TO OBTAIN TELEMETRY SIGNALS AND MARK EVENTS FROM THE TITAN IIIIE/CENTAUR D-IT LAUNCH VEHICLE AND THE SPACE-CRAFT. IN ADDITION, ONE MAC C-141 MAINTENANCE SUPPORT AIRCRAFT WOULD BE REQUIRED. THE ARIA AIRCRAFT WOULD PROVIDE COMPLETE TELEMETRY COVERAGE OF THE SECOND BURN OF THE MAIN ENGINES AS WELL AS THE SPACECRAFT PROPULSION MODULE BURN DURING THE LATTER PART OF THE LAUNCH SEQUENCE. THE ARIA WOULD RECEIVE, RECORD AND RETRANSMIT THE TELEMETRY DATA TO

SELECTED GROUND STATIONS IN REAL TIME.

3. THE AUSTRALIAN PORTION OF THE OPERATION WOULD CONSIST OF THE FOLLOWING:

A. ARIA NUMBER ONE:

ARRIVE --- STATION ----- DEPART

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----- ANDERSEN AFB GUAM 16/2300 AUG  
17/0700 AUG PEARCE RAAF 19/0930 AUG  
19/0945 AUG PERTH INTL ---- 20/1300 AUG  
20/1900 AUG PEARCE RAAF 20/2100 AUG  
21/0115 AUG SYDNEY ----- 23/2300 AUG  
24/0315 AUG PEARCE RAAF ---- 29/0930 AUG  
29/0945 AUG PERTH INTL ---- 30/1300 AUG  
30/1900 AUG PEARCE RAAF --- 02/0100 SEP  
02/0500 SEP DARWIN ----- 02/0700 SEP  
02/1200 SEP ANDERSEN AFB GUAM

B. ARIA NUMBER TWO:

ARRIVE --- STATION ----- DEPART

----- ANDERSEN AFB GUAM -- 16/2315 AUG  
17/0415 AUG DARWIN ----- 20/1300 AUG  
20/1900 AUG DARWIN ----- 20/2100 AUG  
21/0100 AUG SYDNEY ----- 23/2315 AUG  
24/0315 AUG DARWIN ----- 30/1300 AUG  
30/1900 AUG DARWIN ----- 02/0030 SEP  
02/0530 SEP ANDERSEN AFB GUAM

C. ARIA NUMBER THREE:

ARRIVE --- STATION ----- DEPART

----- ANDERSEN AFB GUAM -- 16/2330 AUG  
17/0730 AUG PEARCE RAAFB ----- 19/0945 AUG  
19/1000 AUG PERTH INTL ----- 20/1305 AUG  
20/1915 AUG PEARCE RAAFB ----- 29/0945 AUG  
29/1000 AUG PERTH INTL ----- 30/1305 AUG  
30/1915 AUG PEARCE RAAFB ----- 02/0130 SEP  
02/0530 SEP DARWIN ----- 02/0730 SEP  
02/1230 SEP ANDERSEN AFB GUAM

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D. MAC C-141 SUPPORT AIRCRAFT:

ARRIVE --- STATION ----- DEPART

----- ANDERSEN AFB GUAM -- 16/2345 AUG  
17/0445 AUG DARWIN ----- 17/2330 AUG  
18/0330 AUG PEARCE RAAFB ----- 19/1000 AUG  
19/1015 AUG PERTH INTL ----- 20/0100 AUG  
20/0500 AUG DARWIN ----- 25/0030 AUG  
25/0430 AUG PEARCE RAAFB ----- 02/0045 SEP  
02/0100 SEP PERTH INTL ----- 02/0300 SEP  
02/0700 SEP DARWIN ----- 02/0900 SEP  
----- ANDERSEN AFB GUAM -- 02/1355 SEP

4. ARIA NUMBER FOUR WOULD OPERATE AS FOLLOWS:

ARRIVE --- STATION ----- DEPART

----- WRIGHT-PATTERSON AFB 14/1400 AUG  
14/2000 AUG ZANDERIJ, SURINAM -- 15/1230 AUG  
15/1830 AUG ASCENSION IS ---- 16/0830 AUG  
16/1400 AUG DF MALAN, ROSA --- 18/0700 AUG  
18/1200 AUG PLAISANCE, MAURITIUS 20/1240 AUG  
20/1800 AUG PLAISANCE, MAURITIUS 22/0600 AUG  
22/1100 AUG DF MALAN, ROSA --- 23/0800 AUG  
23/1330 AUG ASCENSION IS ---- 24/1000 AUG  
24/1600 AUG ZANDERIJ, SURINAM -- 25/1300 AUG  
25/1930 AUG WRIGHT-PATTERSON AFB

5. NOTES ON PROPOSED ITINERARIES:

A. AT PERTH, THE ARIA RELOCATE FROM PEARCE RAAFB TO THE INTERNATIONAL AIRPORT ON THE DAY PRIOR TO EACH MISSION FOR THE CONVENIENCE OF THE AIRPORT OFFICIALS. IF THIS IS NOT NECESSARY, ALL AIRCRAFT COULD LAND AND REMAIN AT PERTH INTERNATIONAL.

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B. IF DELAYS DEVELOP, ARIA NUMBER FOUR MIGHT BE REQUIRED TO REPOSITION TO ANDERSEN AFB, GUAM AFTER 7 SEPTEMBER. THIS COULD REQUIRE THE AIRCRAFT TO LAND AND REMAIN OVERNIGHT AT COCOS ISLAND AND REFUEL AT DARWIN ON THE FOLLOWING DAY.

C. IF SIGNIFICANT MAINTENANCE PROBLEMS DEVELOP IN ANY OF THE THREE ARIA IN AUSTRALIA, ARIA NUMBER FOUR MAY BE REQUIRED TO REPOSITION ON DARWIN OR PERTH AUSTRALIA TO REPLACE ANY DISABLED ARIA. ADDITIONALLY, THE C-141 AND MAINTENANCE CREW WOULD HAVE TO DEPLOY AS SOON AS POSSIBLE TO THE LOCATION OF THE MALFUNCTIONING AIRCRAFT. IF AN

EXTENDED DELAY DEVELOPS BETWEEN THE SPACE VEHICLE LAUNCHES, THE C-141 MAY DEPART AUSTRALIA TO BE USED IN THE NORMAL AIRLIFT CHANNEL. IF THIS SHOULD OCCUR, A MINIMUM OF 24 HOURS NOTICE PRIOR TO EXIT AND A MINIMUM OF 48 HOURS NOTICE PRIOR TO REENTRY WOULD BE GIVEN. THE REENTERING AIRCRAFT MAY NOT BE THE SAME AS ONE OF THE ORIGINAL DEPENDING ON MISSION REQUIREMENTS.

D. ARIA NUMBER THREE WOULD SERVE AS BACKUP FOR ARIA NUMBER ONE FOR A DELIVERY OF DATA FROM PERTH TO SYDNEY AFTER THE FIRST LAUNCH.

6. THE MISSION SUPPORT ROUTES OF FLIGHT WOULD NOT BE FINALIZED UNTIL MID-JULY, HOWEVER, THE FOLLOWING REPRESENTS THE MOST CURRENT PLANNING.

A. ARIA ONE AND THREE WOULD STAGE FROM PERTH INTERNATIONAL AIRPORT AND FLY IDENTICAL SUPPORT ROUTES WITH ALTITUDE SEPARATION FOR DUAL COVERAGE. ARIA TWO WOULD STAGE FROM DARWIN. ON THE SPACECRAFT LAUNCH DAY (NOMINALLY 20 AND 30 AUGUST), THE AIRCRAFT WOULD PROCEED TO THEIR RESPECTIVE INITIAL POSITIONS (IP) TO ARRIVE THERE AT  
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THE OPENING OF THE LAUNCH WINDOW. IF A LAUNCH OCCURS, THE AIRCRAFT WOULD THEN PROCEED TO THEIR OPENING TEST SUPPORT POSITION (TSP) TO SUPPORT THE MISSION. IF LAUNCH DOES NOT OCCUR WHEN THE AIRCRAFT REACH THE OPENING IP, THEY WOULD PROCEED TOWARD THE CLOSING IP TO ARRIVE THERE AT THE CLOSE OF THE LAUNCH WINDOW. IF LAUNCH OCCURS SOMETIME BETWEEN THE OPENING AND CLOSING OF THE WINDOW, THE AIRCRAFT WOULD PROCEED TO A POINT ALONG A LINE CONNECTING THE OPENING AND CLOSING TSP'S. ACTUAL SUPPORT WOULD OCCUR ON A FLIGHT PATH PERPENDICULAR TO THIS LINE AND FIFTY NAUTICAL MILES ON EITHER SIDE. AIRCRAFT ALTITUDE WOULD BE FROM 25,000 TO 39,000 FEET DEPENDING ON AIRCRAFT GROSS WEIGHT. AFTER SUPPORTING THE LAUNCH, ARIA ONE AND THREE WOULD RETURN TO PEARCE

RAAFB AND ARIA TWO TO DARWIN. THE FOLLOWING POSITIONS WOULD BE USED IF SPACECRAFT LAUNCH OCCURS ON THE FIRST DAY OF THE LAUNCH OPPORTUNITY:

ACFT ----- OPENING IP ---- CLOSING IP

ARIA 1 AND 3 2606S 10948E -- 2730S 10212E

----- OPENING TSP -- CLOSING TSP

----- 2150S 10755E 2746S 09731E

ACFT ----- OPENING IP ---- CLOSING IP

ARIA 2 ----- 1239S 12646E -- 1500S 1200E

----- OPENING TSP -- CLOSING TSP

----- 0821S 12505E 1550S 11549E

B. IF SPACECRAFT LAUNCH DOES NOT OCCUR ON THE FIRST DAY OF THE LAUNCH OPPORTUNITY, AND AS THE LAUNCH DAY PROCEEDS  
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TOWARD THE FINAL DAY OF THE LAUNCH OPPORTUNITY, THE SUPPORT POSITIONS WOULD SHIFT IN A SOUTHEASTERLY DIRECTION. THE FLIGHT PROFILES DETAILED ABOVE WOULD REMAIN THE SAME WITH ONLY A CHANGE IN THE IP AND TSP COORDINATES. THE SUPPORT AREA FOR THE REMAINING DAYS OF THE LAUNCH OPPORTUNITY WOULD BE LOCATED WITHIN THE AREA BETWEEN THE FOLLOWING COORDINATES.

ARIA 1 AND 3 3300S 08500E TO 1900S 11100E TO 2500S 1320E TO BEGINNING POINT

ARIA 2 2800S 11000E TO 1900S 10700E TO 0700S 12000E TO 0600S 14100E TO 1200S 15000E TO 1600S 15100E TO BEGINNING POINT

7. ARIA NUMBER FOUR WOULD STAGE FROM PLAISANCE AIRPORT MAURITIUS. THE AIRCRAFT WOULD PROBABLY PROCEED FROM PLAISANCE TO COORDINATES 3130S 06647E TO SUPPORT THE MISSION ON ALL LAUNCH DAYS AND TIMES. IF NO LAUNCH OCCURS PRIOR TO 7 SEPTEMBER, THE AIRCRAFT WOULD REPOSITION TO ANDERSEN AFB, GUAM VIA COCOS ISLAND AND DARWIN, AUSTRALIA TO SUPPORT THE SPACECRAFT PROPULSION MODULE BURN. THE PRECISE MISSION PROFILE HAS NOT BEEN DETERMINED BUT IT IS EXPECTED TO BE OVER BROAD OCEAN AREAS SOUTHEAST OF GUAM.

8. EACH ARIA AIRCREW WOULD CONSIST OF APPROXIMATELY SEVEN OFFICERS, THIRTEEN AIRMEN AND TWO DOD SPONSORED

CIVILIANS. IN ADDITION, A NASA SPONSORED CIVILIAN WOULD ACCOMPANY ONE OF THE ARIA TO AUSTRALIA. THE C-141 AIRCREW WOULD CONSIST OF APPROXIMATELY FIVE OFFICERS AND FOUR AIRMEN. THE MAINTENANCE SUPPORT TEAM WOULD BE PASSENGERS ON BOARD THE C-141 AND WOULD CONSIST OF APPROXIMATELY ONE OFFICER, EIGHT AIRMEN AND FOUR DOD SPONSORED CIVILIANS. ALL PERSONNEL INVOLVED IN THIS OPERATION WOULD BE US CITIZENS AND WOULD POSSESS ALL CONFIDENTIAL

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IDENTIFICATION CREDENTIALS REQUIRED BY THE USAF FOREIGN CLEARANCE GUIDE. SPECIFIC MISSION DETAILS AND SUPPORT REQUIREMENTS WOULD BE FORWARDED IN ACCORDANCE WITH THE

USAF FOREIGN CLEARANCE GUIDE, AND RADIO FREQUENCIES PROCESSED IN ACCORDANCE WITH AFM 100-31.

9. ALL PHASES OF THIS PROJECT ARE UNCLASSIFIED AND FULLY RELEASABLE TO THE HOST GOVERNMENTS, AND WHILE THE AIRCREW WOULD NOT BE ABLE TO DETERMINE ACTUAL LAUNCH VEHICLE OR SPACECRAFT FLIGHT PERFORMANCE CHARACTERISTICS DURING THE MISSION SUPPORT, THEY WOULD BE ABLE TO ADVISE LOCAL OFFICIALS WHETHER THE MISSION APPEARED NORMAL. THE ARIA CREW WOULD WELCOME THE OPPORTUNITY TO GIVE LOCAL OFFICIALS TOURS AND EXPLANATIONS OF THE AIRCRAFT AND ITS MISSION.

10. FOR AMEMBASSY PARIS: REQUEST YOU SEEK APPROVAL FOR THE USE OF ST DENIS/GILLOT AIRPORT, LA REUNION AS A WEATHER ALTERNATE FOR ARIA NUMBER FOUR FOR OPERATIONS TO BE CONDUCTED FROM MAURITIUS.

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## Message Attributes

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**Channel Indicators:** n/a  
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**TAGS:** MARR, TSPA, AS, NS, MP, SF, NASA  
**To:** CANBERRA PARIS MULTIPLE  
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